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| UTILITY PATENT APPLICATION TRANSMITTAL <i>(Only for original applications)</i> | Attorney Docket No. 1640.1021 First Named Inventor or Application Identifier: Takanori MORI et al. Express Mail Label No. |
| APPLICATION ELEMENTS <i>See MPEP chapter 600 concerning utility patent application contents.</i> | ADDRESS TO: Commissioner for Patents Box Patent Application PO Box 1450 Alexandria, VA 22313-1450 |


22389 U.S. PTO
 10/689553



102103

1. ☒ Fee Transmittal Form
2. ☒ Specification, Claims & Abstract[Total Pages: 30]
3. ☒ Drawing(s) (35 USC 113)[Total Sheets: 14] [FIGS. 1-7, 8A-8B, 9A-9B, and 10-20]
4. ☐ Oath or Declaration[Total Pages: ___]
 - a. ☐ Newly executed (original or copy)
 - b. ☐ Copy from a prior application (37 CFR 1.63(d))
 - i. ☐ **DELETION OF INVENTOR(S)**
 Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
5. ☐ Verified Statement Claiming Small Entity Status
6. ☐ Application Data Sheet. See 37 C.F.R. 1.76
7. ☐ Applicant claims foreign priority benefit to:
8. ☐ CD-Rom or CD-R in duplicate, large table or Computer Program (Appendix)
9. ☐ Nucleotide and/or Amino Acid Sequence Submission *(if applicable, all necessary)*
 - a. ☐ Computer Readable Form (CRF)
 - b. ☐ Specification Sequence Listing on:
 - i. ☐ CD-ROM or CD-R (2 copies); or
 - ii. ☐ paper
 - c. ☐ Statement verifying identity of above copies
10. ☒ For publication of assignee information under 37 CFR 1.215(b), list the assignee as Communications Research Laboratory, Independent Administrative Institution of Koganei, Japan. The Assignment papers will be filed later.

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| ACCOMPANYING APPLICATION PARTS |
| 11. <input type="checkbox"/> Assignment (cover sheet & document(s)) to Communications Research Laboratory, Independent Administrative Institution of Koganei, Japan <input type="checkbox"/> for publication of assignee information under 37 CFR 1.215(b) |
| 12. <input type="checkbox"/> 37 CFR 3.73(b) Statement <i>(when there is an assignee)</i> <input type="checkbox"/> Power of Attorney |
| 13. <input type="checkbox"/> English Translation Document <i>(if applicable)</i> |
| 14. <input type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 <input type="checkbox"/> Copies of IDS Citations |
| 15. <input type="checkbox"/> Preliminary Amendment |
| 16. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) <i>(Should be specifically itemized)</i> |
| 17. <input type="checkbox"/> Certified Copy of Priority Document(s) <i>(if foreign priority is claimed)</i> |
| 18. <input type="checkbox"/> Request and Certification for Nonpublication under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent |
| 19. <input type="checkbox"/> Other: |

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|-------------------------------------------------------------------------------------|
| 20. CORRESPONDENCE ADDRESS |
|  |



15915 U.S. PTO

S&H Form (10/03)

| NEW APPLICATION FEE TRANSMITTAL | | Attorney Docket No. | 1640.1021 | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------|----------------------|----------------------------------|------------------|
| | | Application Number | Unassigned | | |
| | | Filing Date | October 21, 2003 | | |
| AMOUNT ENCLOSED | \$ 0.00 | First Named Inventor | Takanori MORI et al. | | |
| FEE CALCULATION (fees effective 10/01/03) | | | | | |
| CLAIMS | (1) FOR | (2) NUMBER FILED | (3) NUMBER EXTRA | (4) RATE | (5) CALCULATIONS |
| | TOTAL CLAIMS | 19 - 20 = | 0 | X \$ 18.00 = | \$ 0.00 |
| | INDEPENDENT CLAIMS | 2 - 3 = | 0 | X \$ 86.00 = | 0.00 |
| | MULTIPLE DEPENDENT CLAIMS (any number; if applicable) | | | + \$290.00 = | 290.00 |
| | | | | BASIC FILING FEE | 770.00 |
| | | | | Total of above Calculations = | \$ 1060.00 |
| | Surcharge for late filing fee, Oath or Declaration (37 CFR 1.53(f)) (\$130.00) | | | | 130.00 |
| | Reduction by 50% for filing by small entity (37 CFR 1.27). | | | | |
| | | | | TOTAL FILING FEE = | \$ 1190.00 |
| | Surcharge for filing non-English language application (\$130.00; 37 CFR 1.52(d)) | | | | 130.00 |
| | Recordation of Assignment (\$40.00; 37 CFR 1.21(h)) | | | | |
| | | | | TOTAL FEES DUE = | \$ 1320.00 |
| METHOD OF PAYMENT | | | | | |
| <input type="checkbox"/> Check enclosed as payment. | | | | | |
| <input type="checkbox"/> Charge "TOTAL FEES DUE" to the Deposit Account No. below. | | | | | |
| <input checked="" type="checkbox"/> No payment is enclosed and no charges to the Deposit Account are authorized at this time (unless specifically required to obtain a filing date). | | | | | |
| GENERAL AUTHORIZATION | | | | | |
| <input type="checkbox"/> If the above-noted "AMOUNT ENCLOSED" is not correct, the Commissioner is hereby authorized to credit any overpayment or charge any additional fees necessary to: | | | | | |
| Deposit Account No. | | 19-3935 | | | |
| Deposit Account Name | | STAAS & HALSEY LLP | | | |
| <input type="checkbox"/> The Commissioner is also authorized to credit any overpayments or charge any additional fees required under 37 CFR 1.16 (filing fees) or 37 CFR 1.17 (processing fees) during the prosecution of this application, including any related application(s) claiming benefit hereof pursuant to 35 USC 120 (e.g., continuations/divisionals/CIPs under 37 CFR 1.53(b) and/or continuations/divisionals/CPAs under 37 CFR 1.53(d)) to maintain pendency hereof or of any such related application. | | | | | |
| SUBMITTED BY: STAAS & HALSEY LLP | | | | | |
| Typed Name | | David M. Pitcher | | Reg. No. | 25,908 |
| Signature | | | | Date | October 21, 2003 |